CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/757a/CEMENT/2014-15

Date: 06.02.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**M/s. Annapoorneshwari Engineering Works,** Bangalore.
***NAME OF THE WORK**	:	Providing Cement Concrete to Roads at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/KH/143/1/2014-15 Dated: 05.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	05.02.2015
PERIOD OF TESTING	:	05.02.2015 to 06.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Quality Manager

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Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/757a/SAND-Gradation/2014-15 : 06.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **M/s. Annapoorneshwari Engineering Works,** Bangalore.

*** Name of Work** : Providing Cement Concrete to Roads at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/143/1/2014-15 Dated: 05.02.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 05.02.2015

Date of Testing : 06.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.48	90-100	90-100	90-100	95-100
2.36	81.00	60-95	75-100	85-100	95-100
1.18	56.41	30-70	55-90	75-100	90-100
600 Micron	26.15	15-34	35-59	60-79	80-100
300 Micron	10.91	5-20	8-30	12-40	15-50
150 Micron	4.67	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/757a/AGG/GR/2014-15 : 06.02.2015

TEST REPORT ON COARSE AGGREGATES

*** Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	: **M/s. Annapoorneshwari Engineering Works,** Bangalore.
*** Name of Work**	: Providing Cement Concrete to Roads at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KH/143/1/2014-15 Dated: 05.02.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 05.02.2015
Date of Testing	: 06.02.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.11	95-100	85-100
20	51.50	30-70	0-20
10	27.93	10-35	0-5
4.75	4.10	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/757a/CUBE/2014-15 23.02.2015

TEST REPORT ON CONCRETE CUBES

*** Client**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	: **M/s. Annapoorneshwari Engineering Works,** Bangalore.
*** Name of the work**	: Providing Cement Concrete to Roads at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
*** Reference**	: AEE/KH/143/1/2014-15 Dated: 05.02.2015
*** Sample ID**	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 16.02.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.02.2015	23.02.2015	8.382	345.2	15.34
2	16.02.2015	23.02.2015	8.267	328.5	14.60
3	16.02.2015	23.02.2015	8.479	356.7	15.85

AE-8

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Job No.: CTCE/BBMP/AEW/W.No.08/CSR.2/757a/CUBE/2014-15 26.02.2015

TEST REPORT ON CONCRETE CUBES

*** Client** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **M/s. Annapoorneshwari Engineering Works,** Bangalore.

*** Name of the work** : Providing Cement Concrete to Roads at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/KH/143/1/2014-15 Dated: 05.02.2015

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as o : 7^{th} day

Sample Received on : 19.02.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.02.2015	26.02.2015	8.156	352.2	15.65
2	19.02.2015	26.02.2015	8.245	360.2	16.01
3	19.02.2015	26.02.2015	8.390	365.3	16.24

A&B

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